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TOPSECRET 010032Z			25X1
CORONA	TO FUALUATION INTERIM R	FPORT (PEIR).	
CORONA SUBJ: MISSION 1044 PHOTOGRAPH REF:	AIC EVALUATION INTERTS A	El on: VI Danie	
			25X1
1. NUMERICAL SUMMARY	1044-1, 2-8 NOV 67	OUT637	712
MSN NO AND DATES	1044-2. 8-11 NOV 67		
LAUNCH DATE AND TIME:	2 NOV 1967/2131Z	D 1 'C' (' D '	
VEHICLE NUMBER: CAMERA SYSTEM:	1639 J-41	Declassification Revie NGA/DoD	w by
PAN CAMERA NO:	FORWARD-LOOKING, 202	NOADOD	
	AFT-LOOKING, 203 D99/122/120		
MSN 1044-1 S/I NO: MSN 1044-2 S/I NO:	D104/132/131		
RECOVERY REVS:	MSN 1044-1, 87		
	MSN 1044-2, 140		
2. CAMERA SETTINGS	TOTAL CLIT WEAT	ren 230	
FWD-LOOKING	0.225 INCH SLIT, WRATT 0.175 INCH SLIT, WRATT	TEN 21	
AFT-LOOKING 3. PERFORMANCE SUMMARY			
A MINIMUM OF PAYLOAD SY			
THE TWACE CUADDNING	S ATTAINMED TO ENUBL TO I	HIV! I I'M TOO	
ASSOCIATION OF THE PROPERTY OF	THE INTERPOLATION AND A SECOND PROPERTY OF A SECOND		
AT (60X) MAGNIFICATION. THE	S MISSION PRODUCED EXCE	LLENT	
THE DIVE DIVE	INTERPORT OF THE PROPERTY OF T	1112 112	
IS GENERALLY GOOD WHERE NOT TION; HOWEVER, THERE IS A PR	DEGENORD BY AIMOSIN ENTO	PI I I I I I I I I I I I I I I I I I I	
TION; HOWEVER, THERE IS A PR HIGHEST PRIORITY TARGETS.	EDOMINANCE OF CECUS CO.		
. ANOMAL TEC	HERE CENTERALLY OF A CHA	PACTERISTIC	α
THE ANOMALIES REPORTED NATURE, WITH EMULSION BUILD-	WERE GENERALLY OF A CHA	EABLE.	
ANOMALY: A RAGGED EDGE WAS OBSERVED TO A MINOR EXTE	ON THE BINARY SIDE OF	E FWD	
TUC MACHITA TUC MA	ICMITTOR OF THIS ANDORES	11.0	and the state of t
TH 1000-2. INFORMATION CONT	FMI OF THE LIFT DID MOT	APPEAR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TO BE LOST BECAUSE OF THIS A	ANUMALI.	CLUMPING	Contraction Contraction of Contracti
PARTICLE CLUMPING EXTENDS IN AS A MASK, CAUSING THE FORM			2 440 I
AS A MASK, CAUSING THE FORMARAIL TO APPEAR RAGGED.	AI EDGE DEFINED DI INC.	24.	
ACTION: NONE.		Company Comp	A1 1
B. H. O. VEILING	NG OF THE AFT STARBOARD	HORIZON,	6:23%-8
THE PART OF THE PA	ADC DV DASS III.SS. IDE. I	IUNIZON I	1 56 2 Q 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
STILL WELL DEFINED, AND THE	ANOMALY DOES NOT PRECLU	JUE SAIIS-	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FACTORY DATA REDUCTION.	N HAS BEEN OBSERVED ON S	SEVERAL	
PREVIOUS SYSTEMS. INVESTIG	ATION HAS FAILED TO EST	ABLISH A	erine i menerini di mandani dalah Menerina dalah menerina
DEFINITE CAUSE.	AT THIS TIME.		•
ALLEGE DINER DI OCV	C	CTV EDAMES	
ANOMALY: BINARY DATA	BLOCKS WERE MISSING IN	DIV LUBUED	

6ROUP 1
Excluded from airboratic
downgrs 25 X 1
declassification

THROUGH THE MISSION. FOUR OCCASIONS WERE ON THE FORWARD CAMERA, AND TWO ON THE AFT. IN ALL INSTANCES THE INDEX LIGHTS AND SERIAL NUMBER WERE LIT. CAUSE: RANDOM OCCURRENCE OF MISSING DATA BLOCKS WAS OBSERVED IN PRE-FLIGHT ALTITUDE TESTING. THE CONDITION WAS NOT CON-SIDERED DETRIMENTAL, AND CORRECTIVE ACTION WAS WAIVED. ACTION: NONE. HAIR LINE EMULSION CRACKS ANOMALY: FINE HAIR LINE EMULSION CRACKS ARE EXHIBITED ALONG BOTH EDGES OF THE FORWARD CAMERA RECORD AT THE BEGINNING OF THE MISSION, GRADUALLY DIMINISHING UNTIL COMPLETELY ABSENT AT PASS D37. THESE CRACKS ARE EVIDENT AS PLUS DENSITY LINES IN THE MARGIN THEY NEITHER INTRUDE INTO THE FORMAT AREA NOR DO THEY NORMALLY EXTEND TO THE EDGE OF THE FILM. CAUSE: UNKNOWN. ORIGINAL NEGATIVES OF THE MATERIAL AFFECTED WERE NOT AVAILABLE FOR THIS EVALUATION. ACTION: NONE D. BANDING ANOMALY: INTERMITTENT BANDS OF SMEARING NEAR THE TAKE-UP END OF THE FORMAT. CAUSE: THE BANDS OF SMEARING AT THE TAKE-UP END OF THE FORMAT WERE CAUSED BY FILM FLUTTER DISTURBANCES AS THE SCAN HEAD ENTERS THE PHOTOGRAPHIC FORMAT AREA. ACTION: NONE. THIS ANOMALY IS CHARACTERISTIC OF INSTRUMENT OPERATION. 5. DUAL GAMMA PROCESSING REFS C AND D AUTHORIZED TO PROCESS FOUR LENGTHS, EACH APPROXIMATELY 2,000 FEET, OF BOTH THE 1044-1 AND 1044-2
PAYLOADS USING AN EXPERIMENTAL DUAL GAMMA PROCESS. PRELIMINARY EVALUATIONS THAT COMPARE THESE MATERIALS TO CONVENTIONALLY 25X1 PROCESSED PORTIONS OF THE MISSION ARE RESTRICTED TO THE EFFORTS OF THE PET TEAM AND LIMITED INPUTS FROM COLLECTIVELY 25X1 THESE INPUTS INDICATE: A HIGH PERCENTAGE OF THE IMAGERY WAS RECORDED AT DEN-SITIES BELOW 1.2, OR ON THOSE PORTIONS OF THE DUAL GAMMA AND CONVENTIONAL (FULL DEVELOPMENT) CURVES THAT ARE ESSENTIALLY IDENTICAL. THEREFORE, DIFFERENCES IN QUALITY AT THESE DEN-SITIES ARE SMALL AND SUBTLE AND PROBABLY A RESULT OF VARIABLES OTHER THAN THE MODE OF PORCESSING. IN PARTICULAR INSTANCES WHERE HIGH REFLECTANCE SUBJECTS WERE RECORDED, THERE IS GENERALLY A PREFERENCE FOR THE DUAL GAMMA PROCESSED MATERIAL. C. AS A GENERAL CONCLUSION, THE PET BELIEVES THAT DUAL GAMMA PROCESSING WILL PROVIDE BETTER INFORMATION CONTENT OVER-ALL THAN THE TRENTON PROCESSED FILM AND RECOMMENDS, SUBJECT TO PI EVALUATION, THAT HAVE THE CAPABILITY AS SOON AS PRACTICAL TO PROCESS FULL (16,000 FEET) PAYLOADS. ₂25X1 CONDUCT A SUBJECTIVE PI EVALUATION OF THE ACTION: DUAL GAMMA PROCESSED FILM (AND/OR DUPLICATE POSITIVE COPIES) 25X1 VERSUS THE TRENTON PROCESSED FILM AND REPORT RESULTS TO THE

25X1

25X1

25X1

SHOULD

ADDRESSEES OF THIS MESSAGE BY 22 DECEMBER (MONITOR-

BE AUTHORIZED TO PROCEED TO IMPLEMENT DUAL GAMMA PROCESSING

IF THE RESULTS OF THIS EVALUATION ARE FAVORABLE,

FOR FULL CORONA PAYLOADS.

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6. COMMENTS
A NEW CRITERIA WAS USED FOR SETTING THE PEAK CAMERA FOCUS,
THIS CHANGE AMOUNTED TO A FILM PLANE SHIFT OF 0.0015 INCHES
FROM THE PREVIOUS PEAK FOCUS SETTINGS. ALTHOUGH NOT CONCLUSIVE,
IT APPEARS THAT THIS FOCAL SHIFT IMPROVED THE PHOTOGRAPHY.
THIS WAS EVIDENCED BY THE QUALITY OF THE IMAGERY WHEN VIEWED
AT 60X MAGNIFICATION. THE PERMANENT RESOLUTION TARGETS ACQUIRED
AT EDWARDS AND HOLLOMAN AIR FORCE BASES PRODUCED A GROUND
RESOLUTION OF 8 TO 9 FEET IN AND ACROSS THE FLIGHT LINE.
TOPSECREP

END OF MESSAGE